



## Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by  
Water Science Branch, Department of Water

Date: Monday 19<sup>th</sup> September 2016

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a southerly breeze of up to 8 knots. The predicted tides at Guildford were 0.66 m (low tide) at 08:05 and 0.78 m (high tide) at 14:17. Perth recorded 19.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Guildford and Caversham oxygenation plants were operational the week prior to sampling.

Lower Swan/Canning Estuary (FP2.1 to NAR): The Lower Swan Estuary was saline throughout FP2.1 and FP7 and brackish over saline from BLA to NAR. Water was well oxygenated throughout, with the exception of low oxygen bottom water at ARM and hypoxic bottom water at HEA and NAR. Water temperature ranged from 14.6 to 15.9 °C.

Middle Swan Estuary (NIL to MAY): The Middle Swan Estuary was well oxygenated and brackish throughout all sites. Water temperature ranged from 14.7 to 16.1 °C.

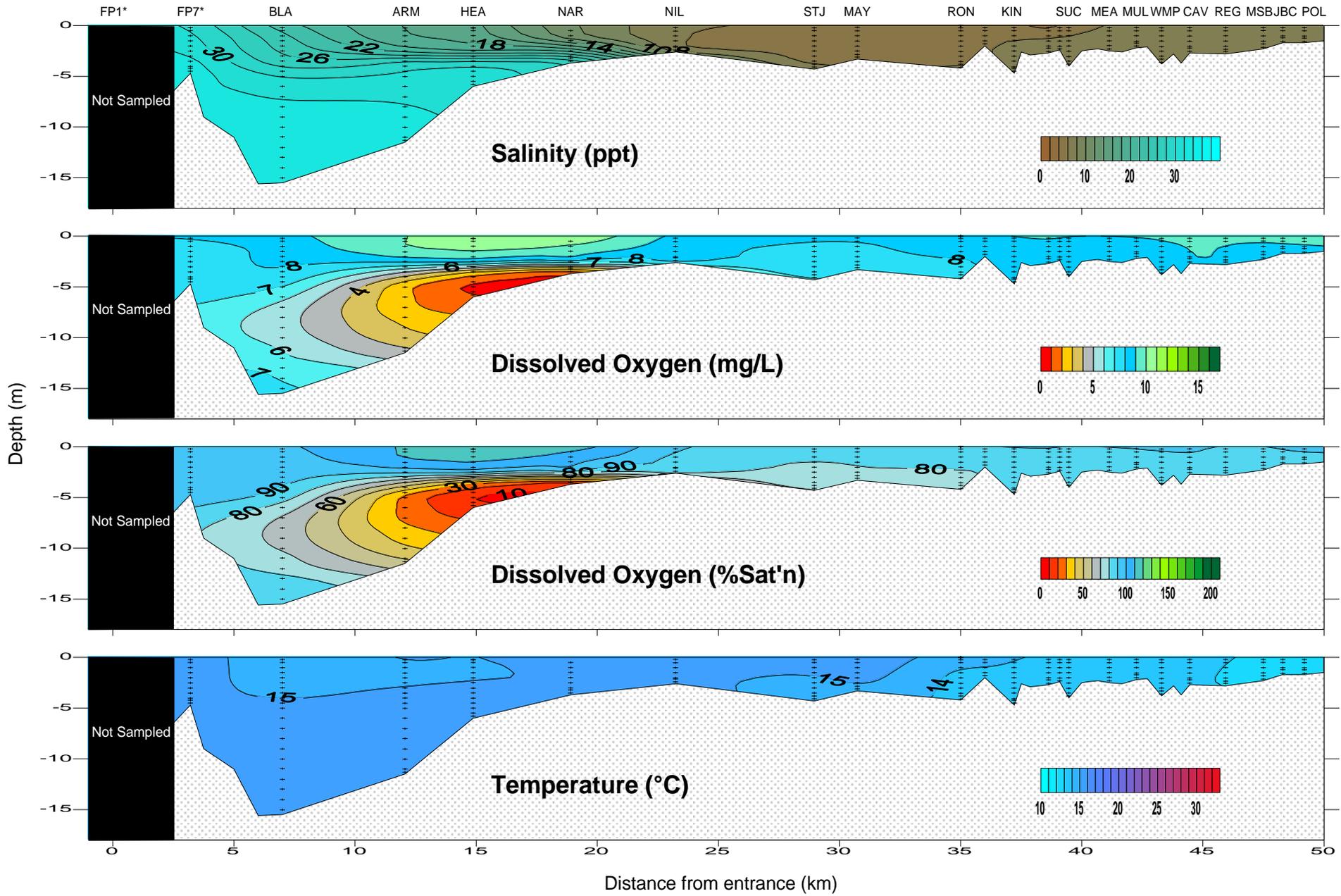
Upper Swan Estuary (RON to POL): The Upper Swan Estuary was brackish and well oxygenated throughout all sites, with the exception of fresh surface water at KMO and VIT. Water temperature ranged from 12.5 to 15.0 °C.

**Definitions:**

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L, oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L, hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

# Swan River Estuary - Physical-chemical Profile - 19th September 2016



\*Data for sites FP1 (Harbour entrance) and FP7 (Fremantle Bridge) are supplied courtesy of the Fremantle Port Authority